

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING - CYBER SECURITY

Lesson Plan & Work-done Diary for AY:2026-27, ODD Semester

Course with Code : OPEARTING SYSYSTEMS (1BCS304)					Faculty : Ms. Sandhya G			Semester & Section: 3 rd
Module	Class No.	Date Planned (DD/MM)	Topics to be Covered	TLP Planned	Class No.	Date of Conduction (DD/MM)	Topics Covered	Remarks if any deviation
MODULE -1	1		Bridge course					
	2		Bridge course					
	3		Introduction to operating systems, System structures					
	4		What operating systems do; Computer System organization;					
	5		Computer System architecture; Operating System structure;					
	6		Operating System operations; Process management;					
	7		Memory management; Storage management.					
	8		Operating System Services: User - Operating System interface;					
	9		System calls; Types of system calls					
	10		System programs;					
	11		Operating system design and implementation;					
	12		Operating System structure					

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MODULE -2	13		Process Management: Process concept;					
	14		Process scheduling; Operations on processes					
	15		Inter-process communication communication.					
	16		Multi-threaded Programming: Overview					
	17		Multithreading models; Thread Libraries, Threading issues					
	18		Process Scheduling: Basic concepts; Scheduling Criteria					
	19		Scheduling Algorithms; Thread scheduling					
	20		Multiple-processor scheduling.					

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MODULE -3	21		Process Synchronization: Background,					
	22		The critical section problem; Peterson's solution					
	23		Synchronization hardware; Semaphores					
	24		Classical problems of synchronization.					
	25		Deadlocks: System model					
	26		Deadlock characterization; Methods for handling deadlocks					
	27		Deadlock prevention; Deadlock avoidance					
	28		Deadlock detection and recovery from deadlock.					



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MODULE - 4	29		Memory Management: Memory management strategies					
	30		Background; Swapping					
	31		Contiguous memory allocation					
	32		Paging; Structure of page table; Segmentation.					
	33		Virtual Memory Management: Background					
	34		Demand paging; Copy-on-write					
	35		Page replacement; Allocation of frames					
	36		Thrashing					



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MODULE -5	37		File System: File system: File concept					
	38		Access methods; Directory and Disk structure					
	39		File system mounting; File sharing					
	40		Implementing File system: File system structure					
	41		File system implementation; Directory implementation					
	42		Allocation methods; Free space management.					
	43		Mass Storage Structure Disk structure					
	44		Disk attachment; Disk scheduling					
	45		Disk management.					

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	Activity	Planned	Actual	Remarks
1	Theory Classes	45		
2	Assignments/Quizzes/ Self study			
3	Tutorials/ Extra classes			
4	Internal Assessments			
5	ICT based Teaching (% of usage in Curriculum)	100%		
Planning			Execution	
Faculty Signature: Ms. Sandhya G			Faculty Signature: Ms. Sandhya G	
HOD Signature:			HOD Signature:	



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